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## RAW SEQUENCE LISTING

DATE: 04/08/2002

PATENT APPLICATION: US/09/782,587B

TIME: 16:03:58

Input Set : A:\0213us310-SEQUENCE\_LISTING-Nov2001.txt

Output Set: N:\CRF3\04082002\I782587B.raw

3 <110> APPLICANT: PEDERSEN, ANDERS H.  
4 ANDERSON, KIM V.  
5 BORNAES, CLAUS  
7 <120> TITLE OF INVENTION: FACTOR VII OR VIIA-LIKE MOLECULES  
9 <130> FILE REFERENCE: 31-001100US  
11 <140> CURRENT APPLICATION NUMBER: 09/782,587B  
12 <141> CURRENT FILING DATE: 2002-03-26  
14 <150> PRIOR APPLICATION NUMBER: PA 2000 00218  
15 <151> PRIOR FILING DATE: 2000-02-11  
17 <150> PRIOR APPLICATION NUMBER: 60/184,036  
18 <151> PRIOR FILING DATE: 2000-02-22  
20 <150> PRIOR APPLICATION NUMBER: 60/241,916  
21 <151> PRIOR FILING DATE: 2000-10-18  
23 <160> NUMBER OF SEQ ID NOS: 19  
25 <170> SOFTWARE: PatentIn Ver. 2.1  
27 <210> SEQ ID NO: 1  
28 <211> LENGTH: 406  
29 <212> TYPE: PRT  
30 <213> ORGANISM: Homo sapiens  
32 <220> FEATURE:  
33 <221> NAME/KEY: MOD\_RES  
34 <222> LOCATION: (6)..(7)  
35 <223> OTHER INFORMATION: Gamma carboxyglutamic acid or glutamic acid  
37 <220> FEATURE:  
38 <221> NAME/KEY: MOD\_RES  
39 <222> LOCATION: (14)  
40 <223> OTHER INFORMATION: Gamma carboxyglutamic acid or glutamic acid  
42 <220> FEATURE:  
43 <221> NAME/KEY: MOD\_RES  
44 <222> LOCATION: (16)  
45 <223> OTHER INFORMATION: Gamma carboxyglutamic acid or glutamic acid  
47 <220> FEATURE:  
48 <221> NAME/KEY: MOD\_RES  
49 <222> LOCATION: (19)..(20)  
50 <223> OTHER INFORMATION: Gamma carboxyglutamic acid or glutamic acid  
52 <220> FEATURE:  
53 <221> NAME/KEY: MOD\_RES  
54 <222> LOCATION: (25)..(26)  
55 <223> OTHER INFORMATION: Gamma carboxyglutamic acid or glutamic acid  
57 <220> FEATURE:  
58 <221> NAME/KEY: MOD\_RES  
59 <222> LOCATION: (29)  
60 <223> OTHER INFORMATION: Gamma carboxyglutamic acid or glutamic acid

ENTERED

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62 <220> FEATURE:  
63 <221> NAME/KEY: MOD\_RES  
64 <222> LOCATION: (35)  
65 <223> OTHER INFORMATION: Gamma carboxyglutamic acid or glutamic acid  
67 <400> SEQUENCE: 1  
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69 1 5 10 15  
W--> 71 Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys  
72 20 25 30  
W--> 74 Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr Ser Asp Gly Asp  
75 35 40 45  
77 Gln Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln  
78 50 55 60  
80 Leu Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn  
81 65 70 75 80  
83 Cys Glu Thr His Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly  
84 85 90 95  
86 Gly Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys  
87 100 105 110  
89 Arg Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr  
90 115 120 125  
92 Pro Thr Val Glu Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg  
93 130 135 140  
95 Asn Ala Ser Lys Pro Gln Gly Arg Ile Val Gly Lys Val Cys Pro  
96 145 150 155 160  
98 Lys Gly Glu Cys Pro Trp Gln Val Leu Leu Val Asn Gly Ala Gln  
99 165 170 175  
101 Leu Cys Gly Gly Thr Leu Ile Asn Thr Ile Trp Val Val Ser Ala Ala  
102 180 185 190  
104 His Cys Phe Asp Lys Ile Lys Asn Trp Arg Asn Leu Ile Ala Val Leu  
105 195 200 205  
107 Gly Glu His Asp Leu Ser Glu His Asp Gly Asp Glu Gln Ser Arg Arg  
108 210 215 220  
110 Val Ala Gln Val Ile Ile Pro Ser Thr Tyr Val Pro Gly Thr Thr Asn  
111 225 230 235 240  
113 His Asp Ile Ala Leu Leu Arg Leu His Gln Pro Val Val Leu Thr Asp  
114 245 250 255  
116 His Val Val Pro Leu Cys Leu Pro Glu Arg Thr Phe Ser Glu Arg Thr  
117 260 265 270  
119 Leu Ala Phe Val Arg Phe Ser Leu Val Ser Gly Trp Gly Gln Leu Leu  
120 275 280 285  
122 Asp Arg Gly Ala Thr Ala Leu Glu Leu Met Val Leu Asn Val Pro Arg  
123 290 295 300  
125 Leu Met Thr Gln Asp Cys Leu Gln Gln Ser Arg Lys Val Gly Asp Ser  
126 305 310 315 320  
128 Pro Asn Ile Thr Glu Tyr Met Phe Cys Ala Gly Tyr Ser Asp Gly Ser  
129 325 330 335  
131 Lys Asp Ser Cys Lys Gly Asp Ser Gly Gly Pro His Ala Thr His Tyr  
132 340 345 350

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134 Arg Gly Thr Trp Tyr Leu Thr Gly Ile Val Ser Trp Gly Gln Gly Cys  
135 355 360 365  
137 Ala Thr Val Gly His Phe Gly Val Tyr Thr Arg Val Ser Gln Tyr Ile  
138 370 375 380  
140 Glu Trp Leu Gln Lys Leu Met Arg Ser Glu Pro Arg Pro Gly Val Leu  
141 385 390 395 400  
143 Leu Arg Ala Pro Phe Pro  
144 405  
147 <210> SEQ ID NO: 2  
148 <211> LENGTH: 1338  
149 <212> TYPE: DNA  
150 <213> ORGANISM: Homo sapiens  
152 <220> FEATURE:  
153 <221> NAME/KEY: CDS  
154 <222> LOCATION: (115)..(1332)  
156 <400> SEQUENCE: 2  
157 atggtcagcc aggccttcgg ctcctgtgc ctgctctgg ggctgcaggg ctgcctggct 60  
159 gccgttccg tcacccagga ggaagcccat ggcgtcctgc atcgcggcg ccgg gcc 117  
160 Ala  
161 1  
163 aat gcc ttt ctg gaa gag ctc cgc cct ggc tcc ctg gaa cgc gaa tgc 165  
164 Asn Ala Phe Leu Glu Glu Leu Arg Pro Gly Ser Leu Glu Arg Glu Cys  
165 5 10 15  
166 Lys Glu Glu Gln Cys Ser Phe Glu Glu Ala Arg Glu Ile Phe Lys Asp  
167 20 25 30 213  
168 213  
169 20 25 30  
171 gct gag cgg acc aaa ctg ttt tgg att agc tat agc gat ggc gat cag 261  
172 Ala Glu Arg Thr Lys Leu Phe Trp Ile Ser Tyr Ser Asp Gly Asp Gln  
173 35 40 45  
175 tgc gcc tcc agc cct tgc cag aac ggg ggc tcc tgc aaa gac cag ctg 309  
176 Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln Leu  
177 50 55 60 65  
179 cag agc tat atc tgc ttc tgc ctg cct gcc ttt gag ggg cgc aat tgc 357  
180 Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn Cys  
181 70 75 80  
183 gaa acc cat aag gat gac cag ctg att tgc gtc aac gaa aac ggg ggc 405  
184 Glu Thr His Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly Gly  
185 85 90 95  
187 tgc gag cag tac tgc agc gat cac acg ggc acg aag cgg agc tgc cgc 453  
188 Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys Arg  
189 100 105 110  
191 tgc cac gaa ggc tat agc ctc ctg gct gac ggg gtg tcc tgc acg ccc 501  
192 Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr Pro  
193 115 120 125  
195 acg gtg gaa tac cct tgc ggg aag att ccc att cta gaa aag cgg aac 549  
196 Thr Val Glu Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg Asn  
197 130 135 140 145  
199 gct agc aaa ccc cag ggc cgg atc gtc ggc ggg aag gtc tgc cct aag 597  
200 Ala Ser Lys Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro Lys

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201	150	155	160	
203	ggg gag tgc ccc tgg cag gtc ctg ctc ctg gtc aac	ggg gcc cag ctg	645	
204	Gly Glu Cys Pro Trp Gln Val Leu Leu Val Asn Gly	Ala Gln Leu		
205	165	170	175	
207	tgc ggc ggg acc ctc atc aat acc att tgg gtc gtg	tcc gcc gct cac	693	
208	Cys Gly Gly Thr Leu Ile Asn Thr Ile Trp Val Val	Ser Ala Ala His		
209	180	185	190	
211	tgc ttc gat aag att aag aat tgg cgg aac ctc atc	gct gtg ctc ggc	741	
212	Cys Phe Asp Lys Ile Lys Asn Trp Arg Asn Leu Ile	Ala Val Leu Gly		
213	195	200	205	
215	gaa cac gat ctg tcc gag cat gac ggg gac gaa	cag tcc cgc cgg gtg	789	
216	Glu His Asp Leu Ser Glu His Asp Gly Asp Glu Gln	Ser Arg Arg Val		
217	210	215	220	225
219	gct cag gtc atc att ccc tcc acc tat gtg cct ggc	acg acc aat cac	837	
220	Ala Gln Val Ile Ile Pro Ser Thr Tyr Val Pro Gly	Thr Thr Asn His		
221	230	235	240	
223	gat atc gct ctg ctc cgc ctc cac cag ccc gtc	gtg ctc acc gat cac	885	
224	Asp Ile Ala Leu Leu Arg Leu His Gln Pro Val Val	Leu Thr Asp His		
225	245	250	255	
227	gtc gtg cct ctg tgc ctg cct gag cgg acc ttt	agc gaa cgc acg ctg	933	
228	Val Val Pro Leu Cys Leu Pro Glu Arg Thr Phe	Ser Glu Arg Thr Leu		
229	260	265	270	
231	gct ttc gtc cgc ttt agc ctc gtg tcc ggc tgg	ggc cag ctg ctc gac	981	
232	Ala Phe Val Arg Phe Ser Leu Val Ser Gly Trp	Gly Gln Leu Leu Asp		
233	275	280	285	
235	cgg ggc gct acc gct ctc gag ctg atg gtg	ctc aac gtc ccc cgg ctg	1029	
236	Arg Gly Ala Thr Ala Leu Glu Leu Met Val Leu	Asn Val Pro Arg Leu		
237	290	295	300	305
239	atg acc cag gac tgc ctg cag cag tcc cgc aaa	gtg ggg gac tcc ccc	1077	
240	Met Thr Gln Asp Cys Leu Gln Gln Ser Arg Lys	Val Gly Asp Ser Pro		
241	310	315	320	
243	aat atc acg gag tat atg ttt tgc gct ggc tat	agc gat ggc tcc aag	1125	
244	Asn Ile Thr Glu Tyr Met Phe Cys Ala Gly	Tyr Ser Asp Gly Ser Lys		
245	325	330	335	
247	gat agc tgc aag ggg gac tcc ggc ggg ccc cat	gcc acg cac tat cgc	1173	
248	Asp Ser Cys Lys Gly Asp Ser Gly Gly Pro His	Ala Thr His Tyr Arg		
249	340	345	350	
251	ggg acc tgg tac ctc acc ggg atc gtc agc tgg	ggc cag ggc tgc gcc	1221	
252	Gly Thr Trp Tyr Leu Thr Gly Ile Val Ser Trp	Gly Gln Gly Cys Ala		
253	355	360	365	
255	acg gtg ggg cac ttt ggc gtc tac acg cgc gtc	agc cag tac att gag	1269	
256	Thr Val Gly His Phe Gly Val Tyr Thr Arg Val	Ser Gln Tyr Ile Glu		
257	370	375	380	385
259	tgg ctg cag aag ctc atg cgg agc gaa ccc cgg	ccc ggg gtg ctc ctg	1317	
260	Trp Leu Gln Lys Leu Met Arg Ser Glu Pro Arg	Pro Gly Val Leu Leu		
261	390	395	400	
263	cgg gcc cct ttc cct tgataa		1338	
264	Arg Ala Pro Phe Pro			
265	405			

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Input Set : A:\0213us310-SEQUENCE\_LISTING-Nov2001.txt  
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268 <210> SEQ ID NO: 3  
269 <211> LENGTH: 406  
270 <212> TYPE: PRT  
271 <213> ORGANISM: Homo sapiens  
273 <400> SEQUENCE: 3  
274 Ala Asn Ala Phe Leu Glu Glu Leu Arg Pro Gly Ser Leu Glu Arg Glu  
275 1 5 10 15  
277 Cys Lys Glu Glu Gln Cys Ser Phe Glu Glu Ala Arg Glu Ile Phe Lys  
278 20 25 30  
280 Asp Ala Glu Arg Thr Lys Leu Phe Trp Ile Ser Tyr Ser Asp Gly Asp  
281 35 40 45  
283 Gln Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln  
284 50 55 60  
286 Leu Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn  
287 65 70 75 80  
289 Cys Glu Thr His Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly  
290 85 90 95  
292 Gly Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys  
293 100 105 110  
295 Arg Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr  
296 115 120 125  
298 Pro Thr Val Glu Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg  
299 130 135 140  
301 Asn Ala Ser Lys Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro  
302 145 150 155 160  
304 Lys Gly Glu Cys Pro Trp Gln Val Leu Leu Val Asn Gly Ala Gln  
305 165 170 175  
307 Leu Cys Gly Gly Thr Leu Ile Asn Thr Ile Trp Val Val Ser Ala Ala  
308 180 185 190  
310 His Cys Phe Asp Lys Ile Lys Asn Trp Arg Asn Leu Ile Ala Val Leu  
311 195 200 205  
313 Gly Glu His Asp Leu Ser Glu His Asp Gly Asp Glu Gln Ser Arg Arg  
314 210 215 220  
316 Val Ala Gln Val Ile Ile Pro Ser Thr Tyr Val Pro Gly Thr Thr Asn  
317 225 230 235 240  
319 His Asp Ile Ala Leu Leu Arg Leu His Gln Pro Val Val Leu Thr Asp  
320 245 250 255  
322 His Val Val Pro Leu Cys Leu Pro Glu Arg Thr Phe Ser Glu Arg Thr  
323 260 265 270  
325 Leu Ala Phe Val Arg Phe Ser Leu Val Ser Gly Trp Gly Gln Leu Leu  
326 275 280 285  
328 Asp Arg Gly Ala Thr Ala Leu Glu Leu Met Val Leu Asn Val Pro Arg  
329 290 295 300  
331 Leu Met Thr Gln Asp Cys Leu Gln Gln Ser Arg Lys Val Gly Asp Ser  
332 305 310 315 320  
334 Pro Asn Ile Thr Glu Tyr Met Phe Cys Ala Gly Tyr Ser Asp Gly Ser  
335 325 330 335  
337 Lys Asp Ser Cys Lys Gly Asp Ser Gly Gly Pro His Ala Thr His Tyr  
338 340 345 350

VERIFICATION SUMMARY

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TIME: 16:03:59

Input Set : A:\0213us310-SEQUENCE\_LISTING-Nov2001.txt  
Output Set: N:\CRF3\04082002\I782587B.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1